

Dual Mode Digital CDMA Telephone

# CDM-120



*Owner's Manual*

 **AUDIOVOX**  
COMMUNICATIONS CORP.

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# Chapter 1

## Getting Started

- 1 Precautions
- 2 Description of the Phone and Accessories
- 3 Phone Overview
- 4 Inserting and Removing the Battery
- 5 Charging the Battery
- 6 Tips on Efficient Use of the Battery

## Precautions



Before you start, please make sure that the battery is fully charged.



Do not use the phone in high-temperature or high-humidity environments. If soaked with liquids, the phone may be unrepairable.

Do not take apart or modify the phone.



Keep the phone in a safe place when not in use to avoid damages resulting from vibration or impact.



Do not touch the antenna during a call.



Do not clean your phone with chemical solutions such as solvent or thinner.

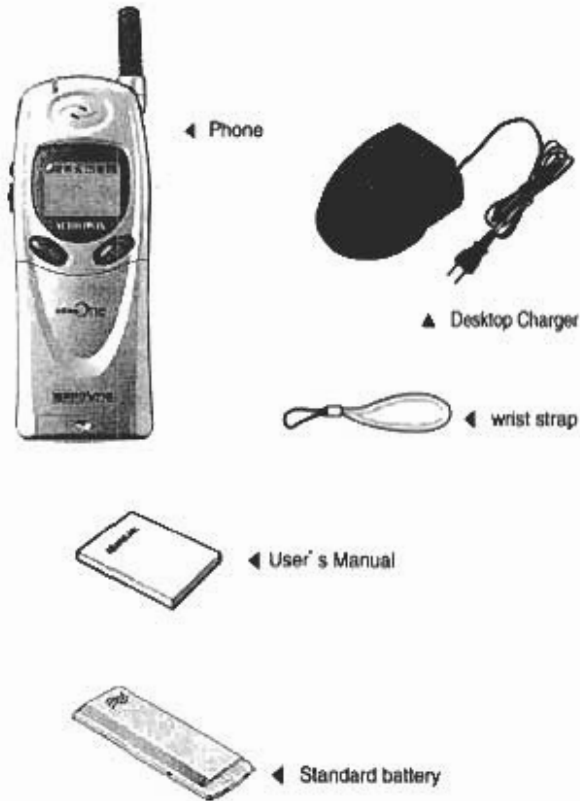


Do not use or place your phone near explosive materials, inflammable liquids or gases.



## Description of the Phone and Accessories

Thank you for choosing the CDM-120 by Audiovox. Please check your package to make sure it includes the following items.



Please report product defects to your retailer immediately.










## Phone Overview

### Main components and their functions



## Phone Overview

### Function keys











-  Accesses menu and list of functions.
-  Makes or answers a call.
-  Terminates a call or returns to standby(initial) mode.  
Switches the phone on/off by pressing and holding the key for more than one second.
-  Erases one character at a time or clears all characters Also, by pressing the key for more than one second, exits from the current menu.
-  Used to save settings or retrieve numbers and names stored in memory.
-  Scrolls through menus, settings or memory.
-  Retrieves text or voice messages.



## Phone Overview

### Display indicators



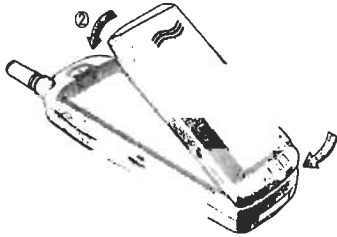
-  (Signal strength)  
Shows signal strength with the number of bars(0-5).
-  (Roaming)  
Indicates that the phone is within the service area of a cellular system other than your home registered system.
-  (Service / No Service)  
When within service area,  is displayed.  
If not,  is displayed.
-  (In Use)  
 Appears when the line is busy.
-  (Short message service)  
Appears when text or voice messages are waiting.
-  (Digital mode)  
Indicates that the phone is in digital mode.
-  (Battery Level Indicator)  
Shows balance of available battery power with the number of bars (0-4).



## Inserting and Removing the Battery

### Inserting the battery

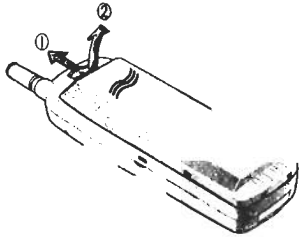
- 1 Insert the battery into the groove at the bottom of the phone and then press the battery in the direction of ② until it snaps.



- The battery must be correctly placed in the battery compartment.
- If battery is incorrectly inserted, the phone will not power on or the battery may slip out when in use.

### Removing the battery

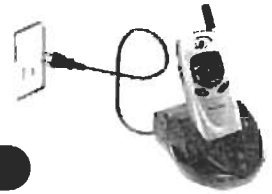
- 1 Pull out the battery in the direction ② while pushing the separation tab in the direction ①.



## Charging the Battery

### Power connection

Connect the charger to a standard 120V AC outlet. LED's will blink orange when the power is cinnected.



### Charging the battery only

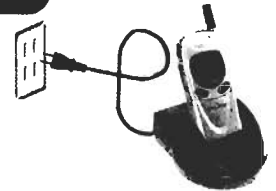
To charge the battery only, insert the battery pack into the charger. LED will indicate charging status.

- Red indicates charging
- Green indicates charging is complete



- Battery is not charged when you purchase the product.
- Fully charge the battery before use.

### Charging the battery with the handset





### Charging completion

Charging is completed when the green-colored LED stays on.

## Charging the Battery

### Status of charger LED's

Charging in progress (Red color on)	Charging completion (Green color on)
	



If the LED is not turned on or the red light blinks after installing a battery in the charger, it indicates that the battery is not being charged.

### Battery charging time

Extended battery	About 300 minutes
Standard battery	About 300 minutes



- If the surrounding temperature and that of battery itself is excessively high or low, charging may not be completed due to battery characteristics.
- So you need to charge the battery at normal temperature.

## Charging the Battery

### Power management table

Battery	Mode	Talk	Stand-by
Standard	CDMA	175min	56 hrs.
	Analog	105min	12 hrs.
Extended	CDMA	375min	120 hrs.
	Analog	225min	27 hrs.

- The operating times are approximate values and may vary depending on network configuration and handset usage.



## **Tips on efficient use of the battery**

Use only batteries and chargers approved by the phone manufacturer.

When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, overcharging may shorten its life.

If left unused, a fully charged battery may completely drain (discharge) in 1 - 4 weeks.

Never use any charger or battery that is damaged or worn out.

Use the battery only for its intended purpose.

Do not short circuit the battery. Accidental short circuiting can occur when a metallic object (e.g. coin, clip or pen) causes direct connection of the two terminals of the battery (metal strips on the back of the battery), for example, when you carry a spare battery in your pocket or purse. Short circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, reduces the capacity and lifetime of the battery. Always try to keep the battery between 41...F and 95...F (5...C and 35...C). A phone with a hot or cold battery may temporarily not work (or charge) even if the battery is fully charged.

Temperature extremes affect the ability of your battery to charge; allow it to cool down or warm up first.

When the battery is not in use, store it uncharged in a cool, dark and dry place.

The battery is a sealed unit with no serviceable parts. Do not attempt to open the case.

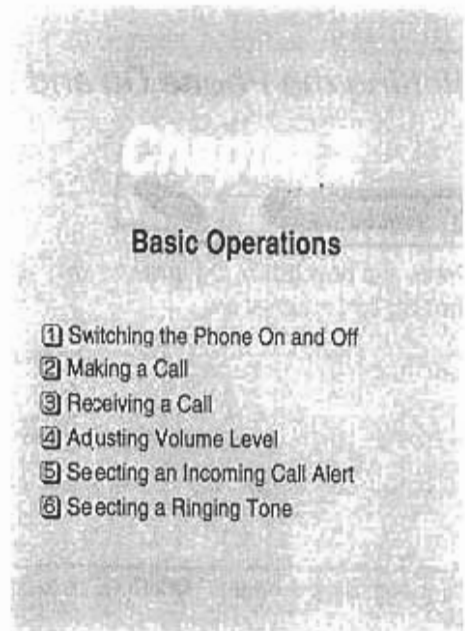
It is recommended that you allow your battery to fully discharge before you recharge it.

The battery can be charged and discharged hundreds of times but will eventually wear out. When the operating time is shorter than normal, it is time to buy a new battery.

Do not dispose of a battery in a fire!

Dispose of used batteries in accordance with local regulations.

Recycle!



- ① Switching the Phone On and Off
- ② Making a Call
- ③ Receiving a Call
- ④ Adjusting Volume Level
- ⑤ Selecting an Incoming Call Alert
- ⑥ Selecting a Ringing Tone



## Switching the Phone On and Off

### Turning the phone ON

- 1 Press and hold [END/⊙] until the LCD light is turned on.

Till ✕ ⊙

RUD1000H

XXX-XXX-XXXX

Till ✕ ⊙

RUD1000H  
MAY 26, WED  
11:00 AM



Your phone is in lock mode if "LOCKCODE" is displayed on the LCD.  
Enter your 4-digit lock code to unlock the phone.

### Turning the phone OFF

- 1 Press and hold [END/⊙] until POWERING OFF is displayed and then the LCD light is turned off.

Till ✕ ⊙

MAY 26, WED  
11:00 AM

Till ✕ ⊙

POWERING OFF

## Making a Call

AREA CODE ⊙ PHONE NUMBER ⊙

- 1 Enter the area code and phone number with the numeric keypad(0-9).

To correct a number.

- Press [CLR] quickly to delete one character at a time.
- Press and hold [CLR] for more than 1 second to clear the entire phone number.

Till ✕ ⊙

02-741-8661

Till ✕ ⊙

CALLING...

02-741-8661

- 2 Press [SEND]

- "CALL FAILED" indicates that your call is not connected.
- Press [END/⊙] and [SEND] to try a call again if the line is busy.

Till ✕ ⊙

00:00:01

02-741-8661

- 3 Press [END/⊙] to terminate the call.

Till ✕ ⊙

RUD1000H  
MAY 26, WED  
11:00 AM



- Press [SEND] to redial the number you just called.
- If [✕] is displayed on the LCD, The phone is out of service area.

## Receiving a Call

① When your phone rings, the answering lamp blinks and "INCOMING CALL" message is displayed on the LCD.



② Press any key except [ \* ] to answer.



③ Press [END/⏻] to terminate the call.



● **AUTO ANSWER** allows you to receive an incoming call automatically after the predefined number of rings. (See pg.47 for complete description.)

## Adjusting a Volume Level

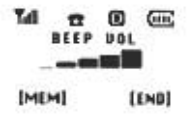
The current volume setting can be controlled in two ways; by using the volume key or the menu key.

### With the volume key



① Press the volume key on the side of the phone to adjust volume levels of the ear-piece, ringer, beep, or hands free kit.

- Adjust earpiece volume during a call.
- Adjust beep volume in standby mode.



② Press [MEM] to store, otherwise the setting is stored automatically in five seconds.

## Adjusting a Volume Level

With the [MENU] key



- 1 Press [MENU], 2 and 3 in standby mode

Yell   
 1: RCU. TYPE  
 2: SELCT RING  
 3: RINGER UOL  
 4: AUTO ANS

- 2 Press [\*▲ or #▼] or [↵] to scroll to the desired volume.

Yell   
 RINGER UOL  
 [MEM] [END]

- 3 Press [MEM] to store the setting.

## Selecting an Incoming Call Alert

You can select ringing tone, or silent alert to be notified of a call.



- 1 Press [MENU], 2 and 1 in standby mode.

Yell   
 1: RCU. TYPE  
 2: SELCT RING  
 3: RINGER UOL  
 4: AUTO ANS

- 2 Press [\*▲ or #▼] to scroll to the desired option.

Yell   
 RCU. TYPE  
 RINGER ON  
 [MEM] [END]

- RINGER ON: sounds ringing tone.
- RINGER OFF: blinks without ringing.

- 3 Press [MEM] to store the setting.

## Selecting a Ringing Tone

This feature allows you to select from 14 options including melody ringers.



① Press [MENU], ② and ② in standby mode.

Tall [OK] [END]  
1: RCV. TYPE  
2: SELECT RING  
3: RINGER VOL  
4: AUTO ANS

② Press [\*▲ or #▼] to scroll to the desired type.

Tall [OK] [END]  
RINGER SELECT  
> BELL 1  
[MEM] [END]

● 8 different melodies and 6 ringing tones are available.

③ Press [MEM] to store the setting.

## Memory Function

- ① Storing a Phone Number
- ② Entering Characters with the Numeric Keypad
- ③ Dialing a Stored Phone Number
- ④ Recalling a Stored Phone Number
- ⑤ Recalling a Stored Phone Number from Protected Memory Locations(90-99)
- ⑥ Clearing a Stored Phone Number
- ⑦ Clearing a Stored Phone Number from Protected Memory Locations (90-99)
- ⑧ Setting up a Reserved Call with an Alarm
- ⑨ Using the Calculator

## Storing a Phone Number

Up to 100 phone numbers with associated names can be stored in memory.

PHONE NUMBER MEMORY LOCATION NUMBER ENTER NAME

① Enter a phone number you want to store and press [MEM].

Tel   
 DEFAULT: 00  
 XX - XXX - XXXX  
 [MEM] [END]

② Enter a memory location number (00-99) for the phone number and press [MEM].

- To change the memory location number, enter a new location number and press [MEM].
- The Last 10 memory locations(90-99) are protected with the lock code against unauthorized retrieval.
- "OVERWRITE?" message is displayed on the LCD if the phone number already exists in the same location.

Tel   
 OVERWRITE  
 YES  
 [MEM] [END]

③ Enter a associated name with the numeric keypad.

- Every key is labeled with corresponding several characters.

Tel   
 LOCATION:  
 NAME?  
 [MEM] [END]

④ Press [MEM] to store.

## Entering Characters with Numeric keypad

The following is a table of letters and special characters labeled on the numeric keypad.

① Select characters you want to enter with the numeric keypad.

Dial button	1st entry	2st entry	3st entry	4st entry	5th entry
1	1				
2ABC	A	B	C	2	
3DEF	D	E	F	3	
4GHI	G	H	I	4	
:	:	:	:	:	
9WXYZ	W	X	Y	Z	9

- When entering special characters(e.g., 0,1,7,-,{} ' \* \*#=\$-+ ]&@) press [0] repeatedly until the desired characters appear.

② Press [ ] to move to the next character.

- Cursor shifts to the next column automatically in two seconds after pressing a numeric key.

③ Enter the associated name with the numeric keypad.

- A name may contain up to 12 alphanumeric characters.



How to correct characters.

- Press [CLR] quickly to delete one character at a time.
- Or press and hold [CLR] for more than one second to clear the entire phone number at once.

## Dialing a Stored Phone Number

This allows you to make a flash call in the convenient way.

### One-touch dialing (for memory location number 0-9)

1 Press and hold the memory location number (0-9) you want for more than 1 second.

- This allows you to call any of the phone numbers stored in the first 10 memory locations (0-9) without pressing [SEND].

Talk

DIALING TO  
MEMORY XX

Talk

XX-XXX-XXXX

### Two-touch dialing (for memory location number 10-99)

1 Press the first digit of the memory location number (10-99) and then press and hold the second digit for more than 1 second.

- This allows you to call any of the phone numbers stored in the last 90 memory locations (10-99) without pressing [SEND].

Talk

DIALING TO  
MEMORY XX

Talk

XX-XXX-XXXX



- If the memory location is empty, "EMPTY LOCATION" is displayed on the LCD.
- If the selected memory location number is one of the last 10 locations (90-99), the phone number is not displayed.

## Recalling a Stored Phone Number

The Phone number Stored in memory can be recalled by scrolling through the recent calls or typing the memory location number, the phone number or the name.

### Recalling by recent calls

MEM 1 1 \*▲ #▼

1 Press [MEM], 1 and 1.

- Up to 10 last calls can be retrieved by the LAST CALL option.

Talk

1: LAST CALL  
2: LOCATION  
3: NUMBER  
4: NAME

2 Press [\*▲ or #▼] to scroll to the desired phone number.

- [#▼] allows you to scroll to recent calls and [\*▲] to older calls.

Talk

10/29 2:11P

XXX-XXX-XXXX  
011CALL TO

3 Press [SEND] to make a call.

## Recalling a Stored Phone Number

### Recalling by the memory location number



① Press [MEM], ① and ②.

Talk

1: LAST CALL  
2: LOCATION  
3: NUMBER  
4: NAME

② Enter the memory location or press [\*▲ or #▼] to scroll to the desired entry.

Talk

RECALL  
LOCATION?

[MEM] [END]

● [\*▲] allows you to scroll higher and [#▼] lower.

Talk

JOHN

KK-KKK-KKXX  
LOCATION: 01

③ Press [SEND] to make a call.

## Recalling a Stored Phone Number

### Recalling by the phone number



① Press [MEM], ① and ③.

Talk

1: LAST CALL  
2: LOCATION  
3: NUMBER  
4: NAME

② Enter the entire or partial phone number you want and press [MEM].

Talk

RECALL  
NUMBER?

[MEM] [END]

③ Press [\*▲ or #▼] to scroll to the desired entry.

Talk

JOHN

KK-KKK-KKXX  
LOCATION: 01

● [\*▲] allows you to scroll higher and [#▼] lower.

④ Press [SEND] to make a call.



## Recalling a Stored Phone Number

### Recalling by the name

MEM → [MEM] → NAME

[\*▲] [▼#]

① Press [MEM], ① and ④.

Tell ☰ [MEM] ☰  
 1: LAST CALL  
 2: LOCATION  
 3: NUMBER  
 4: NAME

② Enter an entire or partial name associated with the phone number you want and press [MEM].

Tell ☰ [MEM] ☰  
 RECALL  
 NAME ?  
 [MEM] [END]

③ Press [\*▲ or ▼#] to scroll to the desired entry.

- [\*▲] allows you to scroll higher and [▼#] lower.

Tell ☰ [MEM] ☰  
 JOHN  
 HH-HXX-HXXX  
 LOCATION: 01

④ Press [SEND] to make a call.

## Recalling a Stored Phone Number from Protected Memory Locations (90-99)

[MEM] [ABC]

① Press [MEM], ① and ②.

Tell ☰ [MEM] ☰  
 1: LAST CALL  
 2: LOCATION  
 3: NUMBER  
 4: NAME

② Enter the memory location number(90 ~ 99) you want to recall or press [\*▲ or ▼#] to scroll to the desired entry.

Tell ☰ [MEM] ☰  
 RECALL  
 LOCATION ?  
 [MEM] [END]

③ Press your 4-digit lock code.

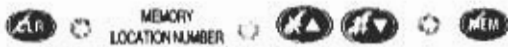
- When you purchase a new phone, the programmed default lock code of the phone is "0000".

Tell ☰ [MEM] ☰  
 JOHN  
 LOCK CODE ?  
 LOCATION: 99

④ Press [SEND] to make a call.

Tell ☰ [MEM] ☰  
 JOHN  
 HH-HXX-HXXX  
 LOCATION: 99

## Clearing a Stored Phone Number from Memory



① Press [CLR]

Yell ✎ [OK] [MEM]  
MEMORY ERASE  
LOCATION # ?  
--

② Enter the memory location number you wish to erase.

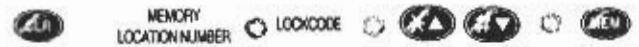
Yell ✎ [OK] [MEM]  
ERASE ?  
YES  
[MEM] [END]

③ Press [\*▲ or #▼] to confirm erasing the phone number and select "YES" if correct.

- YES indicates that you have cleared entry from the memory.
- NO allows you to exit without erasing the entry.

④ Press [MEM] to activate.

## Clearing a Stored Phone Number from Protected Memory Locations (90-99)



① Press [CLR].

Yell ✎ [OK] [MEM]  
MEMORY ERASE  
LOCATION # ?  
--

② Enter the memory location number(90 ~ 99) you wish to erase.

③ Press your 4-digit lock code.

Yell ✎ [OK] [MEM]  
LOCKCODE ?  
----

④ Press [\*▲ or #▼] to confirm the phone number and select "YES" if correct.

- YES indicates that you have cleared the entry from the memory.
- NO allows you to exit without erasing the entry.

Yell ✎ [OK] [MEM]  
ERASE ?  
YES  
[MEM] [END]

④ Press [MEM] to activate.



## Setting up a Reserved call with an Alarm

This feature allows you to reserve a phone number to be displayed at predefined time with an alarm on the LCD. It is available only in digital mode.

MEM 2 ABC

1 Press [MEM] and 2.

Tell ☰ ☲ ☱ ☳  
1: DIRECTORY  
2: ALARM CALL  
3: CALCULATOR

2 Press [\*▲ or #▼] to scroll to the desired option.

Tell ☰ ☲ ☱ ☳  
ALARM SET  
▶ OFF  
[MEM] [END]

- OFF: turns an alarm clock off.
- ONCE: sounds an alarm melody for one minute at a predefined time, displays the reserved phone number and then sets the alarm off.
- DAILY: beeps an alarm signal at predefined time every day.



- Setting alarm to ONCE
  - Enter the time in month, day, hour, minute, e.g., 11/30, 12:30.
  - Press [MEM].
  - Enter the phone number you wish to reserve.
  - Press [MEM].
  - Press [SEND] to dial the reserved number.
- Setting alarm to DAILY
  - Enter the time.
  - Press [MEM].

## Using the Calculator

This feature allows you to use the phone as a calculator.

MEM 3 DEF

1 Press [MEM] and 3.

Tell ☰ ☲ ☱ ☳  
EQU(-) : MEM  
OOL(.) : SEND  
-SMS +:|+|  
-MEMU /:|#

2 Make a calculation by referring to the followings:

Tell ☰ ☲ ☱ ☳  
CALCULATOR

- Available Keys :  
=: [MEM], +: [☒], -: [MENU],  
X: [\*▲], ÷: [#▼], (dot): [SEND]
- Press the key associated with the function you want.
- Or press [☒] and then [\*▲ or #▼] to scroll to the desired function and press [MEM].
- You can enter numbers up to 8 digits (99,999,999) and two decimal places. If the calculation exceeds 8 digits, the phone displays it in the form of 99,999,999 × 10<sup>(E7)</sup> by using 8 valid digits.
- Use '0-value' to display a negative number, i.e., '-8'='0-8'.
- If you press the [☒] key, the menu of available functions is displayed on LCD during a calculation.

Tell ☰ ☲ ☱ ☳  
CALCULATOR

+-\*/.

Tell ☰ ☲ ☱ ☳  
CALCULATOR

E7 -  
99999999

3 Press [END/☒] to exit.

## Menu Functions

- ① Accessing the Menu
- ② Menu Structure
- ③ Greeting Message
- ④ Time Display
- ⑤ Back Light
- ⑥ LCD Contrast
- ⑦ Call Alert
- ⑧ Selecting a Ringing Tone
- ⑨ Ringer Volume
- ⑩ Auto Answer
- ⑪ Phone Number
- ⑫ Phone Version
- ⑬ Setting NAM
- ⑭ Beep Length
- ⑮ Call Time
- ⑯ Air Time
- ⑰ Roam Time
- ⑱ Life Time
- ⑲ Time Alert
- ⑳ Area Alert
- ㉑ Call Release Alert
- ㉒ Biorhythm
- ㉓ Stopwatch
- ㉔ World Time
- ㉕ Auto Lock
- ㉖ Setting Lock Code
- ㉗ Call Restrict
- ㉘ Memory Erase
- ㉙ Resetting the Phone
- ㉚ Voice Privacy

## Accessing the Menu

- ① Press [MENU] and select a menu option with the numeric keypad.

- Press [\*▲ or #▼] or volume key to scroll through the list of menu options.

- ② Press [CLR] to exit from the current menu and return to the previous one. Press [END/ ⏻] or [MENU] to exit from the current menu completely and return to the initial display.

## Menu Structure

- 1. DISPLAY ▶
  - 1 : GREETING
  - 2 : TIME SHOW
  - 3 : BACKLIGHT
  - 4 : CONTRAST
  
- 2. RCV RING ▶
  - 1 : RCV. TYPE
  - 2 : SELCT RING
  - 3 : RINGER VOL
  - 4 : AUTO ANS.
  
- 3. SYSTEM ▶
  - 1 : PEF SYS.
  - 2 : FORCE CALL
  - 3 : PHONE NUM
  - 4 : PHONE VER
  - 5 : SET NAM
  - 6 : AUTO NAM
  - 7 : BEEP LEN
  - 8 : DTMF SPD
  
- 4. TIMER ▶
  - 1 : CALL TIME
  - 2 : AIR TIME
  - 3 : ROAM TIME
  - 4 : LIFE TIME

## Menu Structure

- 5. ALERT ▶
  - 1 : TIME ALERT
  - 2 : AREA ALERT
  - 3 : CALL RLEAS
  
- 6. SPECIAL ▶
  - 1 : BIORHYTHM
  - 2 : STOPWATCH
  - 3 : WORLD TIME
  
- 7. SECURITY ▶
  - 1 : AUTO LOCK
  - 2 : SET LOCK #
  - 3 : RESTRICT
  - 4 : MEM ERASE
  - 5 : RESET PHN
  - 6 : VOICE PRV.

## Greeting Message

This feature allows you to display a greeting message on the LCD when you power on the phone. A greeting message can contain a maximum of 12 characters.



① Press [Menu], ① and ①.



② Enter your greeting message with the numeric keypad.



③ Press [MEM] to store.

## Time Display

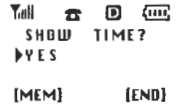
This feature allows you to view current date, day of week, and time on the LCD.



① Press [MENU], ① and ②.



② Press [\*▲ or #▼] to scroll to the desired option.



- YES: activates the Time Display function.
- No : Disables Time Show function.

③ Press [MEM] to store.

# Backlight

This feature illuminates the keypad and LCD display.



① Press [MENU], ① and ③.

```

Yell  ☎  D  [MEM]
1: GREETING
2: TIME SHOW
3: BACKLIGHT
4: CONTRAST
    
```

② Press [\*▲ or #▼] to scroll to the desired backlighting time.

- 1,2,4,6,8, or 10 SECOND(S) : indicates the duration of the backlighting time.
- ALWAYS ON : sets the backlight to be on all the time.
- OFF : sets the backlight to be off all the time.
- OFF IN DAY : turns off the backlight from 9AM to 5PM. ( → Power Save Mode)

```

Yell  ☎  D  [MEM]
BACKLIGHT
▶OFF
[MEM]      [END]
    
```

③ Press [MEM] to store the setting.

# LCD Contrast

This feature allows you to adjust the LCD contrast of the phone.



① Press [MENU], ① and ④.

```

Yell  ☎  D  [MEM]
1: GREETING
2: TIME SHOW
3: BACKLIGHT
4: CONTRAST
    
```

② Press [\*▲ or #▼] to scroll to the desired contrast level.

```

Yell  ☎  D  [MEM]
LCD CONTRAST
▶■■■■□□□□
[MEM]      [END]
    
```

③ Press [MEM] to store the setting.

## Call Alert

Refer to page 23, please .

## Selecting a Ringing Tone

Refer to page 24, please .

## Ringer Volume

Refer to page 22, please .

## Auto Answer

This feature allows you to receive an incoming call automatically after a predetermined number of rings.



① Press [MENU], ② and ④.

Ymll ☎ D   
1: RCU. TYPE  
2: SELCT RING  
3: RINGER VOL  
4: AUTO ANS.

② Press [\*▲ or #▼] to scroll to the desired number of rings.

Ymll ☎ D   
AUTO ANSWER  
▶ OFF

- 1,2,4, or 6 RING(S) : indicates the number of rings before answering the call.
- OFF : cancels Auto Answer function.

[MEM] [END]

③ Press [MEM] to store the setting.



## Phone Number

This feature allows you to view your phone number in standby mode.



① Press [MENU], ③ and ③



## Phone Version

This feature allows you to view the software version of the phone in standby mode.



① Press [MENU], ③ and ④

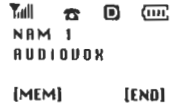


## Setting NAM

The NAM selection feature allows you to change the NAM being used by your phone. Do not use this feature if you do not have multiple registrations.



① Press [Menu], ③ and ⑤ .



② Press [**\*▲** or **#▼**] to scroll to the desired NAM.

- Up to 2 NAMs(NAM1-NAM2) are available.

③ Press [MEM] to store the setting.

## Beep Length

This feature allows you to adjust the length of the key beep.



① Press [MENU], [3] and [7].

Yrll ☎ D   
 BEEP LENGTH  
 BURST  
 [MEM] [END]

② Press [\*▲ or #▼] to scroll to the desired beep length.

- Burst.
- Continuous.

③ Press [MEM] to store the setting.

## Call Time



① Press [MENU], [4] and [1].

- This feature allows you to view the duration of your last call.

Yrll ☎ D   
 00 HOURS  
 00 MINUTES  
 00 SECONDS

## Air Time



① Press [MENU], [4] and [2].

- This feature allows you to view the total air time.

Yrll ☎ D   
 000 CALLS  
 00 HOURS  
 00 MINUTES  
 00 SECONDS

## Roam Time



① Press [MENU], [4] and [3].

- This feature allows you to view the total duration of roaming air time.

Yrll ☎ D   
 000 CALLS  
 00 HOURS  
 00 MINUTES  
 00 SECONDS

## Life Time



① Press [MENU], [4] and [4].

- Total duration of whole roaming air time (It cannot be reset)

Yrll ☎ D   
 000 CALLS  
 00 HOURS  
 00 MINUTES  
 00 SECONDS

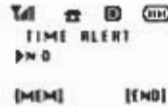
## Time Alert

### Time minder

With this feature ON, you will be notified during a call once every minute by a short beep tone.



① Press [MENU], ⑤ and ①.



② Press [\*▲ or #▼] to scroll to the desired option.

- YES : sounds alert every minute.
- NO : disables Time Alert function.

③ Press [MEM] to store the setting.

## Area Alert

### Area minder

With this feature ON, you will be notified with an audible tone that you are changing service areas.



① Press [MENU], ⑤ and ②.



② Press [\*▲ or #▼] to scroll to the desired option.

- YES : sounds alert and displays a message when the change of service area occurs.
- NO : disables Area Alert function.

③ Press [MEM] to store the setting.

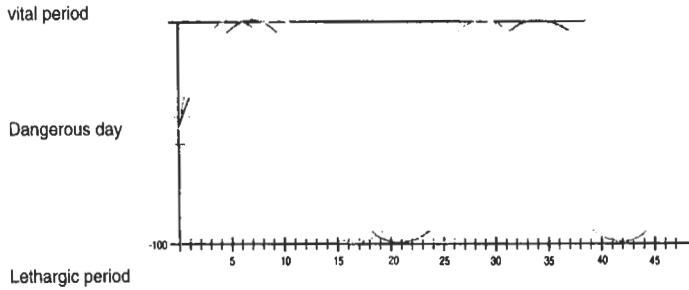
- While you are changing service areas, an alert tone sounds and one of the following messages is displayed on the LCD.
  - ① CHANGING SVC AREA : indicates that you are moving to another service area.
  - ② LEAVING SVC AREA : indicates that you are leaving a service area.
  - ③ ENTERING SVC AREA : indicates that you are just entering a new service area.

## ***Call Release Alert***



This feature provides an audible tone when the call is disconnected.

# Biorhythm



	Physical rhythm (23 days) (Health and sports rhythm such as weight, stamina, courage, etc.)	Emotional rhythm(28 days) (Stability rhythm such as work and love life)	Intelligent rhythm (33 days) (Learning and efficiency rhythm, such as memory,ability to analyze,concentration.)
<b>Vital period</b>	Suitable for tasks requiring physical strength, travel, intensive sports training. But be careful about overconfidence in your body and overdrinking. Good period for rapid recovery from surgery.	Takes care of works full of vitality. Good time for joint work, love seeking, and dating.	Fast brain activity, lots of mental work. Planning, reviewing. Good time to make decisions about important matters.
<b>Dangerous day</b>	High probability of increased body temperature, occurrence of chronic disease, cold, headache. Be careful about driving and other hazardous situations.	Emotions and nerves are easily shaken. Irritation, slip of the tongue, malicious gossip can worsen the condition of a disease.	Lack of attention and concentration leads to a mistake. Better to postpone important decisions or entering into contracts. Be careful about driving.
<b>Lethargic period</b>	Easily fatigued. Need to refrain from drinking, overeating, and excessive physical exercise. Rest is important. Regular and light exercise will increase your potential power.	Become passive at work. Better not to tackle work requiring patience and creativity. Need to take rest while avoiding personal relationships and challenges.	Relatively low level mental work. Avoid demanding brain work and courses you are not confident in. Organize materials, notes and cards.

# Stopwatch



① Press [MENU], [6], and [2]



② Press [\*▲ or #▼] to control the stopwatch.

- [▲]: controls Start/Stop
- [▼]: controls Split/Split Release /Reset
- The time unit is displayed on the LCD up to 1/10 second.

③ Press [END/⊙] to exit and return to the initial display.

## World Time

This feature allows you to see local standard time all over the world. It is available only in digital mode.



① Press [MENU], ⑥ and ③.



② Press [\*▲ or #▼] to scroll to the desired city.

- The following cities are available:  
Athens, Baghdad, Bangkok, Beijing, Berlin, Cairo, Calcutta, Chicago, Denver, George Town, Gusubei, Hong Kong, Honolulu, Karachi, London, Los Angeles, Madrid, Manila, Melbourne, Mexico City, Miami, New York, Okhotsk, Paris, Phoenix, Rangoon, Rio de Janeiro, Rome, Samoa, San Francisco, Seattle, Seoul, Sydney, Teheran, Tokyo, Wellington.

③ Press [MEM] to display.

## Auto Lock

This feature protects the phone against unauthorized use.



① Press [MENU] and ⑦.



② Enter your 4-digit lock code.

- When you purchase the phone, the default programmed lock code is "0000".

③ Press ① (AUTO LOCK).



④ Press [\*▲ or #▼] to scroll to the desired option.



- Yes : activates Auto lock function.
- No : cancels Auto lock function.



⑤ Press [MEM] to store the setting.



- The Auto Lock function is not activated when you purchase the phone. You should, however, activate it as soon as possible.
- Once the Auto Lock function is set to YES, the phone is in lock mode whenever you turn the phone on.

## Setting Lock Code

This feature allows you to change the lock code of the phone.



① Press [MENU] and ⑦

Y'all ☎ D [MEM]  
LOCKCODE ?

② Enter the current 4-digit lock code.

- When you purchase the phone, the default programmed lock code is "0000".

③ Press ② (SET LOCK#)

Y'all ☎ D [MEM]  
1: AUTO LOCK  
2: SET LOCK #  
3: RESTRICT  
4: MEM ERASE ↓

④ Enter a new 4-digit lock code.

Y'all ☎ D [MEM]  
LOCKCODE ? H H H H

⑤ Press [MEM] to store the setting.

## Call Restrict

This feature provides you with 4 levels of call restrictions.



① Press [Menu] and ⑦

Y'all ☎ D [MEM]  
LOCKCODE ?

② Enter your 4-digit lock code.

- When you purchase the phone, the programmed default lock code is "0000".

Y'all ☎ D [MEM]  
1: AUTO LOCK  
2: SET LOCK #  
3: RESTRICT  
4: MEM ERASE ↓

③ Press ③ (RESTRICT).

Y'all ☎ D [MEM]  
RESTRICT?  
▶NO  
[MEM] [END]

④ Press [\*▲ or #▼] to scroll to the desired option.

- YES: activates Restrict function.
- NO: exits without changing the setting and returns to the previous menu.

⑤ Press [MEM] to enter the next menu.

# Call Restrict

This feature restricts all incoming calls. Outgoing calls can be made.



Press ① (INCOMING).

Press [\*▲ or #▼] to scroll to the desired option.

- RESTRICT : bars incoming calls.
- ALLOW : allows incoming calls.

Tell   
1: INCOMING  
2: OUTGOING  
3: USE MEMORY  
4: ROAMING

INCOMING ?  
▶ALLOW  
[MEM] [END]

③ Press [MEM] to store the setting.

① Press ③ (USE MEMORY).

② Select RESTRICT or ALLOW by using the scroll buttons.

- RESTRICT : bars the use of memory.
- ALLOW : allows the use of memory.

③ Press [MEM] to store the setting.

Tell   
USE MEMORY?  
▶ALLOW  
[MEM] [END]

This feature makes the phone not allow all outgoing calls except those to 911, \*611, 611.





# Memory Erase

This feature allows you to erase entries from memory.

① Press [MENU] and ⑦

Yell ☰ D END  
LOCKCODE 7

② Enter your 4-digit lock code.

Yell ☰ D END  
1: AUTO LOCK  
2: SET LOCK #  
3: RESTRICT  
4: MEM ERASE ↓

- When you purchase the phone, the programmed default lock code is "0000".

③ Press ④ and ① (CLR MEMORY).

Yell ☰ D END  
1: CLR MEMORY  
2: CLR DIALED  
3: CLR RECENT  
4: CLR ROAM T

④ Press [\*▲ or #▼] to scroll to the desired option.

Yell ☰ D END  
CLR MEMORY?  
▶ NO  
[MEM] [END]

- YES : clears memory entries.
- NO : exits without erasing them.

⑤ Press [MEM] to activate the operation.

This feature allows you to erase the last 10 phone numbers from memory.

① Press [MENU] and ⑦

Yell ☰ D END  
LOCKCODE 7

② Enter your 4-digit lock code.

Yell ☰ D END  
1: AUTO LOCK  
2: SET LOCK #  
3: RESTRICT  
4: MEM ERASE ↓

- When you purchase the phone, the programmed default lock code is "0000".

③ Press ④ and ② (CLR DIALED).

Yell ☰ D END  
1: CLR MEMORY  
2: CLR DIALED  
3: CLR RECENT  
4: CLR ROAM T

④ Press [\*▲ or #▼] to scroll to the desired option.

Yell ☰ D END  
CLR DIAL #?  
▶ NO  
[MEM] [END]

- YES : clears the entries.
- NO : exits without erasing them.

⑤ Press [MEM] to activate the operation.

# Memory Erase

## Clearing Recent

This feature allows you to erase the total air time from memory.



①

Press [MENU] and ⑦

Yull ☎ D ☰

LOCKCODE ?

②

Enter your 4-digit lock code.

Yull ☎ D ☰

1: AUTO LOCK  
2: SET LOCK #  
3: RESTRICT  
4: MEM ERASE ↓

- When you purchase the phone, the programmed default lock code is "0000".

Press ④ and ③ (CLR RECENT).

Yull ☎ D ☰

1: CLR MEMORY  
2: CLR DIALED  
3: CLR RECENT  
4: CLR ROAM T

④

Press [\*▲ or #▼] to scroll to the desired option.

Yull ☎ D ☰

CLR RECENT?  
▶ NO

- YES : clears the entry.
- NO : exits without erasing it.

[MEM] [END]

⑤

Press [MEM] to activate the operation.

# Memory Erase

## Clearing roam time

This feature allows you to erase the total roam time.



①

Press [MENU] and ⑦

Yull ☎ D ☰

LOCKCODE

②

Enter your 4-digit lock code.

Yull ☎ D ☰

1: AUTO LOCK  
2: SET LOCK #  
3: RESTRICT  
4: MEM ERASE ↓

- When you purchase the phone, the programmed default lock code is "0000".

③

Press ④ and ④ (CLR ROAM).

Yull ☎ D ☰

1: CLR MEMORY  
2: CLR DIALED  
3: CLR RECENT  
4: CLR ROAM T

④

Press [\*▲ or #▼] to scroll to the desired option.

Yull ☎ D ☰

CLR ROAM?  
▶ NO

- YES : clears the entry.
- NO : exits without erasing it.

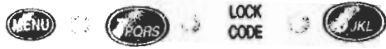
[MEM] [END]

⑤

Press [MEM] to activate the operation.

## Resetting the Phone

This feature allows you to reset phone to factory default setting.



① Press [MENU] and 7.



LOCKCODE ?

② Enter your 4-digit lock code.

- When you purchase the phone, the programmed default lock code is "0000".

③ Press 5 (RESET PHN).



5: RESET PHN |  
6: VOICE PRV.

④ Press [\*▲ or #▼] to scroll to the desired option.



RESET PHN?  
▶ NO

- YES : Reset the phone.
- NO : Does not reset the phone.

[MEM] [END]

⑤ Press [MEM].

## Voice Privacy



① Press [MENU] and 7.



LOCKCODE

② Enter your 4-digit lock code.

- When you purchase the phone, the programmed default lock code is "0000".

③ Press 6 (VOICE PRV).



5: RESET PHN |  
6: VOICE PRV.

④ Press [\*▲ or #▼] to scroll to the desired option.



VOICE PRIV  
▶ STANDARD

- STANDARD : Uses standard voice privacy
- ENHANCED : Uses enhanced voice privacy.

[MEM] [END]

⑤ Press [MEM].

# Making an Emergency Call

This feature allows you to call 911 even if the phone is locked.

## Auxiliary Features

- 1 Making an Emergency Call
- 2 During a Call
- 3 Short Message Service

PHONE  
NUMBER



Enter 911 and press [SEND].



- Emergency phone numbers:  
911,\*611,611.
- When a call ends, the phone  
returns to the previous mode.

Signal strength icons, Phone, Lock, and Emergency call icons  
AUDIO DUN  
- LOCKED -  
LOCKCODE ?

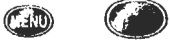
Signal strength icons, Phone, Lock, and Emergency call icons  
00:00:23

911  
EMERGENCY

## During a Call

### Transmitting your phone number

This feature allows you to transmit your phone number automatically during a call.

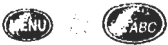


Press [MENU] and ①.

Call 00:00:23  
XX-XXX-XXXX

### Displaying your phone number

This feature allows you to view your phone number during a call.



Press [MENU] and ②.

Call 00:00:23  
CDMA XXX  
XXX-XXXX

- The phone number will be displayed for 5 seconds.

## During a Call

### Muting the key beep

This feature prevents the other party from hearing your key beep when you use scratchpad dialing.



① Press [MENU] and ③.

Call 00:00:23  
XX-XXX-XXXX  
SILENT PAD

② Enter a phone number you wish to store.

- Repeat the above procedure to cancel this operation, and "SILENT PAD" message will disappear on the LCD.

### Muting the voice

This feature prevents the other party from hearing your voice.



① Press [MENU] and ④.


Call 00:00:23  
- MUTE -  
XX-XXX-XXXX

- Repeat the above procedure to cancel this operation, and "MUTE" message will disappear on the LCD.

## Short Message Service

This feature allows you to receive text or voice messages.


### Receiving a text message

When a text message is received,  is displayed with the notice of a new message on the LCD.

- The phone alerts you to a new message in the predefined ringing tone.
- Up to 30 text messages can be stored in memory automatically.

Tell     
+ MESSAGE1 +  
5:06 PM FROM  
NNN-NNN-NNNN

### Receiving a voice message

When a voice message is received,  is displayed with the notice of a new voice mail message on the LCD.


Tell     
X NEW  
VOICE MAIL  
MESSAGES






● System dependent


## Short Message Service

### Reading the received text message




1 Press (  )

- The number of new messages you have received but not yet read is displayed on the LCD.

Tell     
NEW MESSAGES  
X VOICE  
X TEXT  
VOICE : TEXT




2 Press (  ) to select TEXT option.

- A list of message headers is displayed on the LCD.
- Letter "N" in front of a message header indicates that the message has not yet been read.

Tell     
NO1 : HYUNDAI  
NO2 : NNN-NNNN  
03 : I LOVE  
04 : NNN-NNNN

3 Press [ \*▲ or #▼ ] to scroll to the desired message and press [MEM].


- After a short notice of message headers, the corresponding message is displayed automatically on the LCD.
- You can read the message line by line by pressing [ \*▲ or #▼ ] or the volume key.

Tell     
12/25 5:06P  
NNN-NNN-NNNN  
ABC

Tell     
ERASE THIS  
MESSAGE?


[YES\*] [NO#]



- Press [CLR] to erase the message.
- Press [END/  ] to exit and return to the previous menu.


# Short Message Service

## Retrieving the received voice message

1 Press (  ).


- The number of new messages you have received but not yet read is displayed on the LCD.

```
⋄ ⋄ ⋄ ⋄  
NEW MESSAGES  
H VOICE  
H TEXT  
VOICE #: TEXT#
```

Press (  ) to select VOICE option.

- Press [SEND] to listen to the received voice message, and the phone will call your voice mail box automatically.
- Voice messages are available to review but are not stored in memory.

```
⋄ ⋄ ⋄ ⋄  
VOICE MAIL  
12/25 5:06P  
HHH-HHH-HHHH
```

Press [END/  ] to exit and return to the initial display.

```
⋄ ⋄ ⋄ ⋄  
ERASE THIS  
MESSAGE?  
[YES*] [NO#]
```

## Appendix

### 1 Table of Functions

## Table of Functions

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